

Claims;

1. An ink jet recording apparatus comprising:

a UV ink jet recording head fitted with a nozzle to eject UV ink;

a capping member to cap an ejection plane of the nozzle;

a cleaning member which comes into contact with the ejection plane of the nozzle to clean the ejection plane of the nozzle;

a piping member to supply a UV ink to the UV ink jet recording head or to discharge the UV ink; and

an ink tank member to supply the UV ink to the UV ink jet recording head or store discharged ink,

wherein a weight variation ratio of at least one of the capping member, the cleaning member, the piping member and the tank member, which is determined by an immersion test in the UV ink, is less than 50 percent.

2. The ink jet recording apparatus of claim 1, wherein the weight variation ratio of the capping member is less than 50 percent.

3. The ink jet recording apparatus of claim 2, wherein the capping member comes into contact with the ejection plane of the nozzle of the UV ink jet recording head or a member which is located on the same plane as the ejection plane of the nozzle.

4. The ink jet recording apparatus of claim 1, wherein the weight variation ratio of the cleaning member is less than 50 percent.

5. The ink jet recording apparatus of claim 1, wherein the weight variation ratio of the piping member is less than 50 percent.

6. The ink jet recording apparatus of claim 1, wherein the weight variation ratio of the tank member, is less than 10 percent.

7. The ink jet recording apparatus of claim 1 wherein at least a part of the capping member, the cleaning member, the piping member or the tank member is composed of a copolymer in which all side chains are perfluoroalkyl or perfluoroalkoxy group.

8. The ink jet recording apparatus of claim 1, which further comprises a UV radiation source.

9. A capping member to cap an ejection plane of the nozzle of a UV ink jet recording head, wherein a weight variation ratio of the capping member, which is determined by an immersion test in the UV ink, is less than 50 percent.

10. The capping member of claim 8, wherein the capping member comes into contact with the ejection plane of the nozzle of the UV ink jet recording head or a member which is located on the same plane as the ejection plane of the nozzle.

11. A cleaning member which comes into contact with the ejection plane of the nozzle of a UV ink jet recording head fitted with a nozzle to eject UV ink and carries out cleaning of the ejection plane of the nozzle, wherein a weight variation ratio of the cleaning member, which is determined by an immersion test in the UV ink, is less than 50 percent.

12. A piping member supplying UV ink to a UV ink jet recording head fitted with a nozzle to eject the UV ink or to discharge it, wherein a weight variation ratio of the piping member, which is determined by an immersion test in the UV ink, is less than 50 percent.

13. An ink tank member supplying UV ink to a UV ink jet recording head fitted with a nozzle to eject the UV ink or storing discharged ink, wherein a weight variation ratio of the ink tank member, which is determined by an immersion test in the UV ink, is less than 10 percent.

14. An ink jet recording apparatus comprising:

- a UV ink jet recording head fitted with a nozzle to eject UV ink;

- a capping member to cap an ejection plane of the nozzle;

- a cleaning member which comes into contact with the ejection plane of the nozzle to clean the ejection plane of the nozzle;

- a piping member to supply a UV ink to the UV ink jet recording head or to discharge the UV ink; and

an ink tank member to supply the UV ink to the UV ink jet recording head or store discharged ink,

wherein at least a part of the capping member, the cleaning member, the piping member or the tank member is composed of a copolymer in which all side chains are perfluoroalkyl or perfluoroalkoxy group.